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| APPLICATION NO.                         | FILING DATE     | FIRST NAMED INVENTOR          | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-----------------|-------------------------------|---------------------|------------------|
| 10/620,276                              | 07/14/2003      | /14/2003 Glenn Sherburne 7744 |                     | 7744             |
| 24978 7:                                | 7590 03/17/2006 |                               | EXAMINER            |                  |
| GREER, BURNS & CRAIN<br>300 S WACKER DR |                 | PAYNE, SHARON E               |                     |                  |
| 25TH FLOOR                              | M DI            |                               | ART UNIT            | PAPER NUMBER     |
| CHICAGO, IL                             | . 60606         |                               | 2875                |                  |

DATE MAILED: 03/17/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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| 30) DAYS,               |  |
| communication.          |  |
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|  | Application No.   | Applicant(s)   |  |  |  |  |
|--|---|--|--|--|--|--|
| Office Action Summan   | 10/620,276  | SHERBURNE, GLENN   |  |  |  |  |
| Office Action Summary  | Examiner  | Art Unit   |  |  |  |  |
|  | Sharon E. Payne   | 2875   |  |  |  |  |
| The MAILING DATE of this communication app<br>Period for Reply   | ears on the cover sheet with the c  | orrespondence address  |  |  |  |  |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATION  16(a). In no event, however, may a reply be tim  till apply and will expire SIX (6) MONTHS from a  cause the application to become ABANDONET | . ely filed the mailing date of this communication. O (35 U.S.C. § 133). |  |  |  |  |
| Status   |   |  |  |  |  |  |
| 1)⊠ Responsive to communication(s) filed on 09 Ma  | arch 2006.  |  |  |  |  |  |
| ,  |   |  |  |  |  |  |
| 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is   |   |  |  |  |  |  |
| ,  | closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.   |  |  |  |  |  |
| Disposition of Claims  |   |  |  |  |  |  |
| 4)⊠ Claim(s) <u>1-4,8,9,11-20 and 23</u> is/are pending in the application.  |   |  |  |  |  |  |
| 4a) Of the above claim(s) is/are withdraw  |   |  |  |  |  |  |
| 5) Claim(s) is/are allowed.  |   |  |  |  |  |  |
| 6)⊠ Claim(s) <u>1-4, 8, 9, 11-20 and 23</u> is/are rejected  |   |  |  |  |  |  |
| 7) Claim(s) is/are objected to.  |   |  |  |  |  |  |
| 8) Claim(s) are subject to restriction and/or  | election requirement.   |  |  |  |  |  |
| Application Papers   | ·   |  |  |  |  |  |
| _  |   |  |  |  |  |  |
| 9) The specification is objected to by the Examiner  |   |  |  |  |  |  |
|  | 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  |  |  |  |  |  |
| Applicant may not request that any objection to the c  |   |  |  |  |  |  |
| Replacement drawing sheet(s) including the correcti  |   |  |  |  |  |  |
| 11)☐ The oath or declaration is objected to by the Ex  | aminer. Note the attached Office  | Action or form P1O-152.  |  |  |  |  |
| Priority under 35 U.S.C. § 119   |   |  |  |  |  |  |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  |   |  |  |  |  |  |
| a) All b) Some * c) None of:   | have been received  |  |  |  |  |  |
| 1. Certified copies of the priority documents have been received.  |   |  |  |  |  |  |
| 2. Certified copies of the priority documents have been received in Application No   |   |  |  |  |  |  |
| 3. Copies of the certified copies of the priority documents have been received in this National Stage  |   |  |  |  |  |  |
| application from the International Bureau (PCT Rule 17.2(a)).  |   |  |  |  |  |  |
| * See the attached detailed Office action for a list of the certified copies not received.   |   |  |  |  |  |  |
|  |   |  |  |  |  |  |
| Attachment(s)  |   |  |  |  |  |  |
| 1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  |   |  |  |  |  |  |
| Notice of Draftsperson's Patent Drawing Review (PTO-948)     Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)     Paper No(s)/Mail Date   | Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:   | te<br>atent Application (PTO-152)  |  |  |  |  |
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#### **DETAILED ACTION**

#### Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-4, 14 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brenchley et al. (U.S. Publication 2004/0246711 A1) in view of Jensen et al. (U.S. Publication 2003/0035291 A1) and McKinney (U.S. Patent 6,669,352). (Brenchley et al. is an appropriate reference because the subject matter referenced in the rejections is covered in the original application from which the Continuation-in-part application depends; the original application was filed on May 18, 2001.)

Regarding claim 1, Brenchley et al. discloses a wax body (abstract) with an internal cavity therein (last figure in publication, bottom), the wax body having a substantially flat bottom surface with the internal cavity extending thereform (last figure in publication, bottom), an enclosed insert (reference number 266) configured for insertion into the internal cavity and disposed therein (last figure in the publication), a light (last figure in publication, portion on top of part 266 within the boundary surface of reference number 266a) positioned within the enclosed insert positioned within the internal cavity for illuminating the wax body from within (last figure in publication, abstract), the enclosed insert as being of a cylindrical shape (paragraphs 0056-0057, last figure in publication). Brenchley et al. does not disclose a power source enclosed within the insert, a circuit board, a flickering means, the bottom end of the insert being coplanar with the bottom of the wax body or the top being of a semi-hemispherical shape.

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Jensen et al. discloses a power source (reference numbers 40 and 42) coupled to the light (Fig. 3) and contained in the enclosed insert within the internal cavity (Fig. 3, bottom), a circuit board (reference number 44) coupled to the light and power source (Fig. 3) and contained in the enclosed insert within the internal cavity (Fig. 3) and flickering means (abstract) connected to the power source and light and configured for causing the light to flicker from within the enclosed insert and the cavity (abstract, Fig. 3) and a bottom flat end planar with the flat bottom surface of the body (Fig. 3).

McKinney discloses the top end being of a semi-hemisperical shape (Fig. 2, top).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to make the bottom end of the insert coplanar with the wax body as shown in Jensen et al. in the apparatus of Brenchley et al. so that the apparatus can easily sit on a table top. See Fig. 3 of Jensen et al.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the configuration of McKinney in the apparatus of Brenchley et al and Jensen et al. to "create aesthetically pleasing directional lighting along a path or walkway " (column 1, line 19, of McKinney).

Concerning claim 2, Brenchley et al. does not specifically disclose a light emitting diode.

Jensen et al. discloses the light as a light emitting diode (abstract).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the LED of Jensen et al. in the apparatus of Brenchley et al. to reduce power consumption. See paragraph 0015 of Jensen et al.

Regarding claim 3, Brenchley et al. does not disclose a circuit board. Jensen et al. discloses a circuit board that is configured for controlling the voltage from the power source to

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the light emitting diode whereby the circuit board includes as flickering means a device capable of time variation of the current or voltage (paragraphs 0015 and 0026).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the power source, circuit board and flickering means of Jensen et al. in the apparatus of Brenchley et al. to make the apparatus more portable and to generate a pleasing lighting effect. See Fig. 3 and the abstract of Jensen et al.

Concerning claim 4, Brenchley et al. does not disclose a battery. Jensen et al. discloses the power source as a battery (reference numbers 40 and 42).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the battery of Jensen et al. in the apparatus of Brenchely et al. to make the apparatus more portable. See Fig. 3 of Jensen et al.

Regarding claim 14, Brenchley et al. does not disclose a flickering means. Jensen et al. discloses the flickering means as one of an oscillator and a programmable microcontroller (oscillator, paragraph 0030).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the oscillator of Jensen et al. in the apparatus of Brenchley et al. to create an aesthetically pleasing lighting effect. See the abstract of Jensen et al.

Concerning claim 15, Brenchley et al. does not disclose a flickering means. Jensen et al. discloses the flickering means varying the voltage or the current over time (paragraph 0029).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the configuration of Jensen et al. in the apparatus of Brenchley et al. to create an aesthetically pleasing lighting effect. See the abstract of Jensen et al.

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3. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Brenchley et al. in view of Jensen et al. and McKinney as applied to claim 4 above, and further in view of Bonnema et al. (U.S. Publication 2003/0067770 A1).

Regarding claim 8, Brenchley et al. and Jensen et al. do not disclose the insert being made from a translucent material. Bonnema et al. discloses the enclosed insert as a translucent material (paragraph 0040).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the translucent material of Bonnema et al. in the apparatus of Brenchley et al.,

Jensen et al. and McKinney to protect the light source while allowing light to pass through the insert. See paragraph 0040 of Bonnema et al.

4. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Brenchley et al. in view of Jensen et al., McKinney and Bonnema et al. as applied to claim 8 above, and further in view of Lombardi (U.S. Patent 3,994,502).

Regarding claim 9, Brenchley et al. discloses the enclosed insert being affixed within the internal cavity (last figure in publication, bottom). Brenchley et al., Jensen et al. and Bonnema et al. do not specifically disclose a door.

Lombardi discloses a door for access to the power source which is replaceable (column 2, lines 15-20).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the door of Lombardi in the apparatus of Brenchley et al., Jensen et al. and Bonnema et al. to access the batteries easily, making them easy to replace. See column 2, lines 15-20, of Lombardi.

5. Claim 11 is rejected under 35 U.S.C. 103(a) as being unpatentable over Brenchley et al. in view of Jensen et al, McKinney, Bonnema et al. and Lombardi as applied to claim 9 above and further in view of Klein (U.S. Patent 1,950,369).

Regarding claim 11, Brenchley et al., Jensen et al., Bonnema et al. and Lombardi et al. do not disclose the bottom flat end having a door with an access hole. McKinney discloses the bottom flat end defining an access hole (reference number 44) in which the door is positioned (reference number 40). McKinney does not disclose lips in the access hole or tabs in the door.

Klein discloses the access hole having intermittent radially extending lips that selectively hold the door in place (Fig. 3, left) via corresponding planarly outward extending tabs on the door (Fig. 3, right).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the access hole of McKinney in the apparatus of Brenchley et al., Jenson et al., Bonnema et al. and Lombardi to enable one to enable one to change the battery easily. See Fig. 2 of McKinney.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the lips and tabs of Klein in the apparatus of Brenchley et al, Jensen et al.,

Bonnema et al., Lombardi and McKinney to be able to remove the cap without the use of special tools while being able to secure the end of the apparatus as well. See Figs. 1 and 2 of Klein.

6. Claims 12 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brenchley et al. in view of Jensen et al. and McKinney as applied to claim 3 above, and further in view of Lindner (U.S. Patent 5,490,045).

Regarding claim 12, Brenchley et al., Jensen et al. and McKinney do not specifically disclose the number of continuous hours of illumination the power source can provide. Lindner

discloses a power source that lasts at least one hundred continuous hours of illumination (column 2, lines 29-30).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the power source of Lindner in the apparatus of Brenchley et al. and Jensen et al. and McKinney to provide a greater number of continuous hours of operation without changing the battery, thus saving money. See column 2, lines 29-30, of Lindner.

Regarding claim 13, Brenchley et al., Jensen et al. and McKinney do not specifically disclose the number of continuous hours of illumination the power source can provide. Lindner discloses a power source that lasts at least two hundred continuous hours of illumination (column 2, lines 29-30).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the power source of Lindner in the apparatus of Brenchley et al., Jensen et al. and McKinney to provide a greater number of continuous hours of operation without changing the battery, thus saving money. See column 2, lines 29-30, of Lindner.

7. Claim 16 is rejected under 35 U.S.C. 103(a) as being unpatentable over Brenchley et al. in view of Jensen et al. and McKinney as applied to claim 14 above, and further in view of Kitchen (U.S. Patent 2003/0198045 A1).

Regarding claim 16, Brenchley et al., Jensen et al. and McKinney do not specifically disclose a 555 timer. Kitchen discloses a 555 timer (paragraph 0026).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the low power 555 timer of Kitchen in the apparatus of Brenchley et al., Jensen et al. and McKinney so that the candle is able to operate for roughly 18 hours with 4 AA batteries, thus lengthening service life of a battery-operated apparatus. See paragraph 0026 of Kitchen.

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8. Claims 17-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brenchley et al. in view of Jensen et al. and McKinney as applied to claim 14 above, and further in view of Moore (U.S. Patent 6,688,752 B2).

Concerning claim 17, Brenchley et al., Jensenet al., McKinney and Moore do not specifically disclose the microcontroller being programmed to provide random lighting.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to program the microcontroller of Moore in the apparatus of Brenchley et al. and Jensen et al. to provide random lighting. Since the microcontroller is well known in the art, it would have been obvious to one of ordinary skill in the art at the time the invention was made to program the microcontroller as desired to give a random lighting effect.

Concerning claim 18, Brenchley et al., Jensen et al. and McKinney do not disclose a programmable microcontroller programmed to provide flickering lighting. Moore discloses the programmable microcontroller (Fig. 2) being programmed to provide the flickering (abstract).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the microcontroller of Moore in the apparatus of Brenchley et al., Jensen et al. and McKinney to control a matrix of LEDs. See column 1, line 48, to column 2, line 8, of Moore.

Regarding claim 19, Brenchley et al, Jensen et al., McKinney and Moore do not specifically disclose a programmable microcontroller programmed to provide patterned lighting.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to program the microcontroller of Moore in the apparatus of Brenchley et al. and Jensen et al. to provide patterned lighting. Since the microcontroller is well known in the art, it would have been obvious to one of ordinary skill in the art at the time the invention was made to program the microcontroller as desired to give a patterned lighting effect.

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9. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Brenchley in view of Jensen et al. and Lombardi.

Regarding claim 20, Brenchley et al. discloses a wax body (abstract) with an internal cavity therein (last figure in publication, bottom), the wax body having a substantially flat bottom surface with the internal cavity extending thereform (last figure in publication, bottom), an enclosed insert (reference number 266) configured for insertion into the internal cavity and inserted therein (last figure in the publication), a light source (last figure in publication, portion on top of part 266 within the boundary surface of reference number 266a; abstract) positioned within the enclosed insert positioned within the internal cavity for illuminating the wax body from within (last figure in publication, abstract) and the enclosed insert of a cylindrical shape (paragraphs 0056-0057, last figure in publication). Brenchley et al. does not disclose a disposable battery enclosed within the insert, a circuit board, a light emitting diode, a replaceable door, a bottom flat end planar with the flat bottom surface of the wax body or a flickering means.

Jensen et al. discloses a disposable battery (reference number 40) contained within the enclosed insert positioned within the internal cavity (Fig. 3) and coupled to the light source (reference number 24, Fig. 3), a circuit board (reference number 44) having a flickering means thereon (paragraph 0015) and contained within the enclosed insert contained within the internal cavity (Fig. 3) wherein the flickering means is connected to the battery and to the light source (paragraph 0015) and is capable of time variation of at least one of current and voltage provided to the light source (paragraph 0029) causing the light source to flicker from within the internal cavity (abstract), a light emitting diode (abstract), and the bottom flat end planar with the flat

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bottom surface of the wax body (Fig. 3). (As stated above, Brenchley et al. discloses the light source within the insert; see the last figure in the publication.)

Lombardi discloses a replaceable door for access to the battery and light source (column 2, lines 15-20).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the door of Lombardi in the apparatus of Brenchley et al. Jensen et al. to access the batteries easily, making them easy to replace. See column 2, lines 15-20, of Lombardi.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the power source, circuit board and flickering means of Jensen et al. in the apparatus of Brenchley et al. to make the apparatus more portable and to generate a pleasing lighting effect. See Fig. 3 and the abstract of Jensen et al.

10. Claim 23 is rejected under 35 U.S.C. 103(a) as being unpatentable over Brenchley et al. in view of Jensen et al. and Lombadi as applied to claim 20 above, and further in view of Bonnema et al. (U.S. Publication 2003/0067770 A1).

Regarding claim 8, Brenchley et al., Jensen et al. and Lombardi do not disclose the insert being made from a translucent material. Bonnema et al. discloses the enclosed insert as a translucent material (paragraph 0040).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the translucent material of Bonnema et al. in the apparatus of Brenchley et al.,

Jensen et al. and McKinney to protect the light source while allowing light to pass through the insert. See paragraph 0040 of Bonnema et al.

### Response to Arguments

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11. Applicant's arguments filed 9 March 2006 have been fully considered but they are not persuasive.

12. Applicant argues that the references do not disclose an insert with a top having a semi-hemispherical shape, a replaceable door or a light source that is a light emitting diode. However, Applicant merely has incorporated rejected claims into the main claim and asserted that all claims are now allowable. Claims 10 and 24 were rejected for the reasons stated in the last office action, and the Applicant has not given any reasons why those rejections are incorrect. Jensen discloses and LED in the abstract. McKinney discloses the top being of hemispherical shape, and Lombardi discloses the door. Applicant has not explained why he or she disagrees with the interpretation of these references, and the rejections stand.

Applicant states that no motivation exists to combine the references without stating why the motivations stated are incorrect. Motivations to combine are stated in the sentences starting with the phrase "It would have been obvious . . .[,]" and the motivations are still good in the Examiner's opinion. Thus, the rejections stand.

Regarding claim 11, Klein discloses the lip and tab locking system in Fig. 3. Concerning the Applicant's assertion that no motivation to combine the references exists, the arguments advanced in the second paragraph of this section apply equally well here.

The other arguments stand or fall with the arguments discussed above, and for the reasons discussed above the rejections stand.

## Conclusion

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sharon E. Payne whose telephone number is (571) 272-2379. The examiner can normally be reached on regular business hours.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on (571) 272-2378. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

14. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sep

Sharon Payne
Patent Examiner

Technology Center 2800